Workarounds Reasoner

The Workarounds Reasoner evaluates an individual outage or sets of outages for ground transportation Lines of Communication (LOC) networks. Operationally, the system can be used in two distinct ways: (1) During deliberate planning, to develop a detailed understanding of possible workaround options in response to individual outages affecting a particular link in the road network. (2) During crisis action planning, to evaluate the potential for reconstituting an entire network in service of accomplishing some objective, by working around multiple outages. Crisis action planning builds on the results of previous analyses conducted during deliberate planning. In support of deliberate planning, the WR allows for the investigation of the potential for bypass or reconstitution of individual outages associated with bridges or other transportation bottlenecks occurring on particular links in an aggregated road network. This work is being done in conjunction with BAE.